

DREDGE 23
S. Johnston
Is Ridge

[illegible]

Sample Description

Cruise I.D: F7-86-HW

Sample I.D: Sta: 25-CD23-1

Location: S. Johnston
Ridge

Size: _____ Weight: 4.8 kg

Mn crust thickness:

Total: min: 2.5 max: 6.5 ave: 5.0

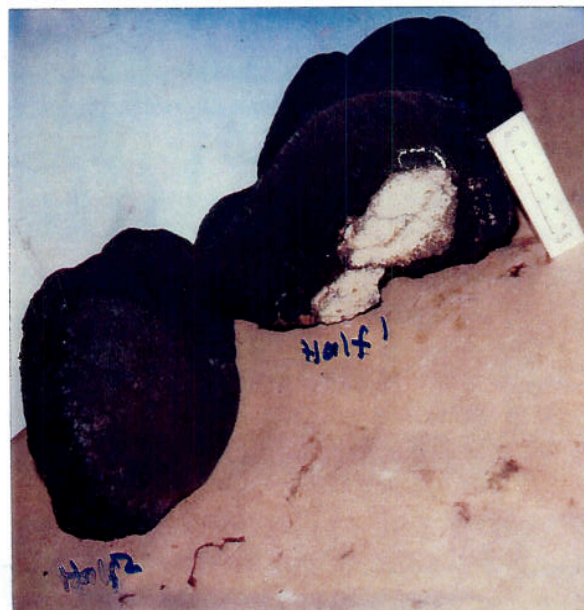
Inner ^(v. massive) crust: min: 1.7 max: 3.2 ave: 2.3

Outer ^(dendritic) crust: min: 2.0 max: 3.5 ave: 2.8

Surface texture: smooth w/ boulding Botryoid
on one edge

Internal structure:

layered: X 2+
laminated: X inner half lat. banding
massive: X inner "half" & outer band so
porous: _____
dendritic: X outer half
other: _____



CD23-1
F7-86-HW

Mineralogy (XRD): Inner half of crust v. massive.
outer half of crust v. porous (some thin orange layers
and dendrites. Inner v. massive part also laminated
outer half has ~ 5 layers.

Associated alteration, phosphorite, or
hydrothermal deposits:

Inner half of crust v. massive. Outer half slightly porous
(some thin orange layers) and dendrites. Inner v.
massive part also laminated outer half has ~ 5 layers

Analyses and subsamples:

analysis: depth 0-50 cm (45-50) CC (45.1g); XRD

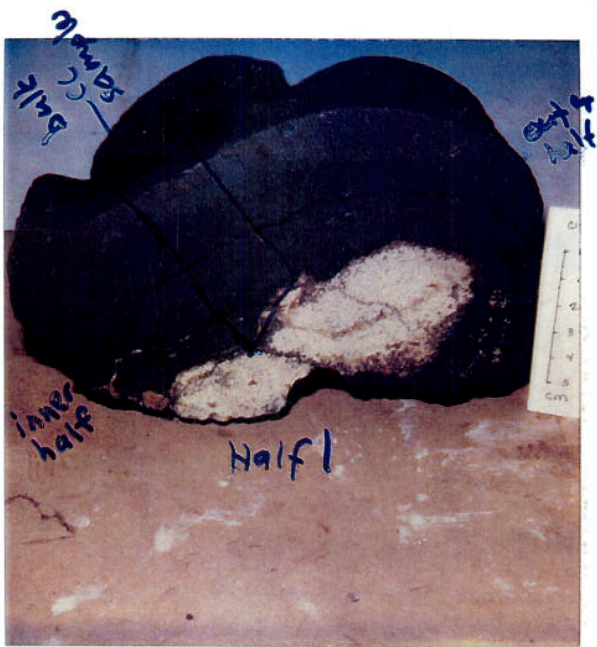
analyst: _____

Substratum:

Rock type: Hyaloclastite

Description: yellowish brown cement w/ fine
green lithic fragments, nodular

Mineralogy (XRD):



CD23-1
F7-86-HW

Half 1
slab taken
from this rock
for chem.

Sample Description

Cruise I.D: F7-86-HW

Sample I.D: Sta: 25 CD 23-2

Location: S Johnston I.
Ridge

27X22X10

Size: _____ Weight: 4 kg

Mn crust thickness:

Total: min: 10mm max: 35mm ave: 2.5mm

Inner crust: min: _____ max: _____ ave: _____

Outer crust: min: _____ max: _____ ave: _____

Surface texture: modified Botryoidal -
mushroom in places

Internal structure: _____

layered: _____

laminated: _____

massive: X

porous: _____

dendritic: _____

other: _____

Mineralogy (XRD): _____

Associated alteration, phosphorite, or
hydrothermal deposits: _____

Substratum: _____

Rock type: Volcanic Breccia
(typical substrate for this dredge)

Description: Altered basalt Rx. Frags. with phosphorite cement. Voids between
clasts not totally filled; lots of pole space. one clast along slabface is a Mn crust clast.

Altered volc. Rx. Frags. with phosphorite cement. Voids between clasts not totally filled; lots of pole space. one clast along slabface is a Mn crust clast.

Mineralogy (XRD): _____



CD23-2

Analyses and subsamples:

analysis:

CD23-2 Bulk

analyst:

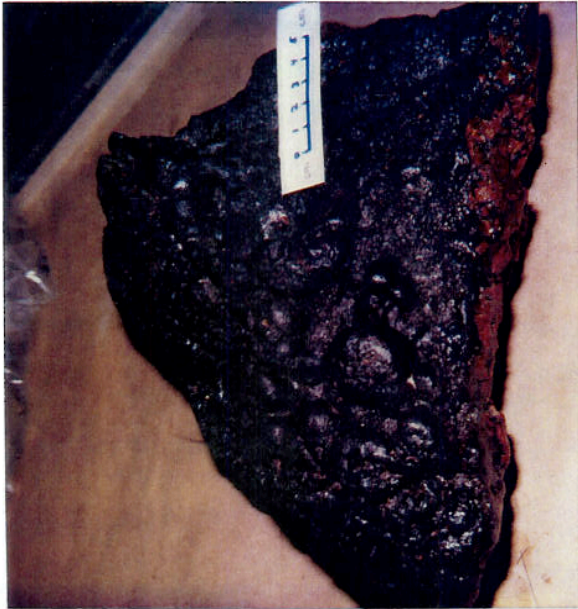
CC 27mm 36mm

Alice has a basalt
from this dredge
w/ ☐
nice crust for
chem-

has a basalt
this dredge w/
not for

- This rock is CD23-A1.

Got from Alice. Jim decided not
to sample. Just describes



CD23-2

SAMPLE DESCRIPTION

Mn Crust Description

Surface Texture: mostly smooth on top

Mn Crust Thickness: (cm)

Min: 1.5 Max: 2.8 Ave: 2.4
towards: do

Layers (Outer to Inner): None

	Min	Max	Ave	Texture
1.				
2.				
3.				
4.				
5.				
6.				

Comments and XRD Mineralogy:

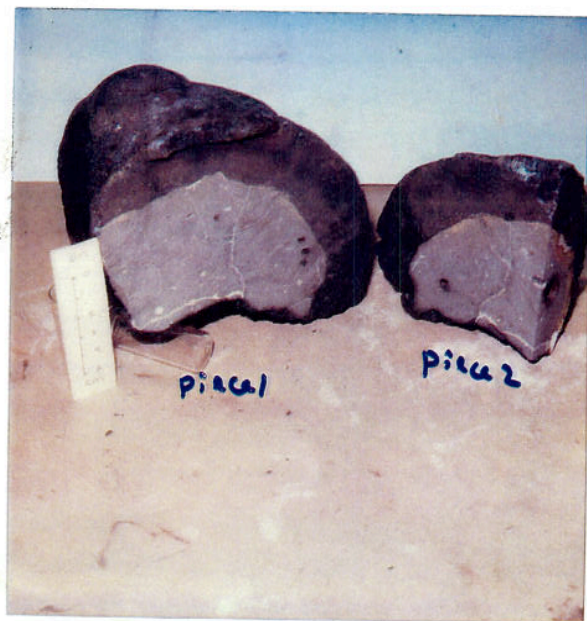
one layer, massive w/ orange to red
disseminated throughout.

Substrate Description

Rock Type: Basalt

Description:

Gray basalt w/ white phosphate (?)
filling fractures. **vessicles** (tiny ones)
Occasional large vesicles, some lined
w/ Mn, some w/ some material that
fills fractures (dark) **fizz**



C223-A1
F7-86-HW

This rock from Alice

Photo 1

ANALYSES

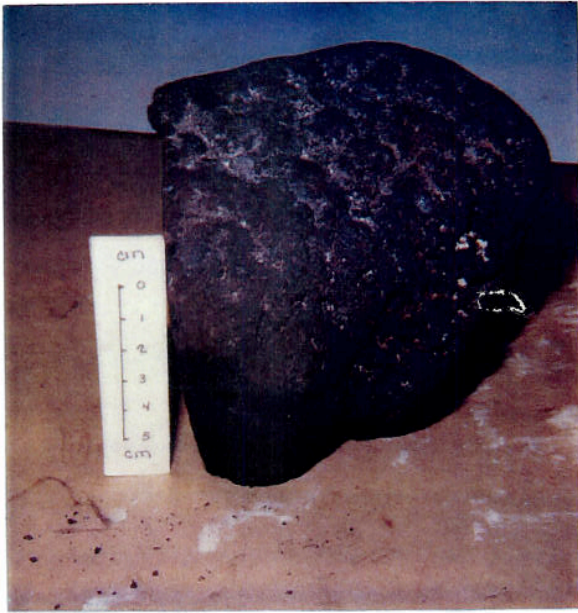
Subsample & Type	Analysis	Weight
------------------	----------	--------

Sample type	Analysis	Weight
<u>Thin section of basalt only - Africa</u>		
<u>(use kept rock)</u>		

Described By: Lisa Goin

Subsampled By: A. G. D. D.

CD23-A1 most from left



CD23-A1 view of right side
F7-86-HW of piece 1 as pic-
photo 2 tured in photo 1